The Food of Ice Fauna and Zooplankton in Frobisher Bay

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ABSTRACT

Grainger, E.H., Stephen I.C. Hsiao, Nadia Pinkewycz, A.A. Mohammed and V. Neuhof. 1985. The food of ice fauna and zooplankton in Frobisher Bay. Can. Data Rep. Fish. Aquat. Sci. 558: iv + 67p.

The stomach contents of 130 specimens of animals occupying the sea ice and 404 specimens of zooplankton inhabiting the water column in Frobisher Bay were identified. There were 109 taxa of phytoplankton found in 45 species of zooplankton, and 52 taxa of microalgae in 14 species of ice-dwelling animals. Chlamydomonas, Nitzschia and Navicula were the major food species of the ice fauna, but there was no evidence of carnivorous feeding. Chlamydomonas, Chaetoceros and Euglena were the principal phytoplankton taxa consumed by the zooplankton, Pseudocalanus, Balanus and Calanus the major animal taxa eaten by the carnivorous zooplankton.

Key words: Food, ice fauna, zooplankton, sea ice microalgae, phytoplankton.

RESUME

Grainger, E.H., Stephen I.C. Hsiao, Nadia Pinkewycz, A.A. Mohammed and V. Neuhof. 1985. The food of ice fauna and zooplankton in Frobisher Bay. Can. Data Rep. Fish. Aquat. Sci. 558: iv + 67p.

Les contenus stomacaux de 130 spécimens d'animaux occupant la glace de mer et de 404 spécimens de zooplancton habitant la colonne d'eau de la baie de Frobisher ont été identifiés. Il y avait 109 groupes taxonomiques de phytoplancton retrouvés dans 45 espèces de zooplancton et 52 groupes d'algues microscopiques retrouvés dans 14 espèces d'organismes résidant dans la glace. Les espèces Chlamydomonas, Nitzschia et Navicula constituaient la principale source de nourriture de la faune de la glace, sans retrouver toutefois l'évidence d'une alimentation de type carnivore. Les principaux groupes taxonomiques de phytoplancton consommés par le zooplancton étaient, Chlamydomonas, Chaetoceros et Euglena tandis que Pseudocalanus, Balanus et Calanus constituaient les principaux groupes taxonomiques d'animaux dévorés par le zooplancton carnivore.

INTRODUCTION

Marine phytoplankton and sea-ice microalgae are the major primary producers in arctic seas. Species composition and cell size of marine phytoplankton may influence the growth and reproduction of planktonic herbivores (Parsons and Lebrasseur, 1970). Herbivorous zooplankton can graze on phytoplankton by passive size selection (Frost, 1977) or raptorial feeding (Porter, 1973). Grazers influence the growth of natural populations of phytoplankton seasonally and geographically (Frost, 1980). They also determine the timing and magnitude of the bloom of phytoplankton standing stock (Harvey et al., 1935).

Grazing rates have been estimated from measurements of algal pigments in the gut contents of herbivores (Nicolajsen et al., 1983). This method has the advantage in that the species composition of the phytoplankton grazed need not be known. It is nevertheless true that there is a wide range of qualities to be found in the food species of herbivores, including variations in size, shape, accessibility and nutrient content, and that much is to be learned about the ecology of phytoplankton-zooplankton interactions by identifying specific food links. The objective of this study is, therefore, to demonstrate specific feeding habits of the zooplankton, both herbivorous and carnivorous, and of ice-inhabiting animals (all of them sometime plankton) in the arctic coastal waters of Frobisher Bay.

It may be noted that numerous plant species are listed from the stomachs of such well known carnivores as the cnidarian Bougainvillia, the ctenophore Mertensia and the chaetognath Sagitta. These, it must be recognized, are not necessarily indicative of active plant grazing, but may denote the gut contents of animal prey.

MATERIALS AND METHODS

Most of the zooplanktonic animals examined were collected in the marine waters of upper Frobisher Bay in standard plankton nets. Inhabitants of the sea ice were taken in ice cores, the animals in which were retained on a fine mesh following filtration of the melted cores. Samples originated both in summer and winter in the years 1982 to 1985. The digestive tracts of the animals were dissected out and the contents fixed in microscope slides for identification of food species. The contained sea ice microalge and phytoplankton were identified to species whenever possible.

ACKNOWLEDGEMENTS

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Table 1. Ice animals with stomachs containing microalgae.

Turbellaria

Rotifera

Nematoda

Polychaeta
  Larvae

Calanoida
  Pseudocalanus sp.

Cyclopoida
  Arctocyclopina pagonasta Mohammed & Neuhof
  Cyclopina gracilis Claus
  C. schneideri Scott
  Cyclopininae-unidentified

Harpacticoida
  Dactylopodia vulgaris (G.O. Sars)
  Halectinosoma finmarchicum (Scott)
  H. neglectum G.O. Sars
  Harpacticus superflexus Willey
  Tisbe furcata (Baird)

Amphipoda
  Onisimus sp.

Table 2. Sea ice microalgae found in the stomach contents of ice animals.

Bacillariophyta
  Centrales
    Chaeotoceros sp.
    C. brevis Schütt
    C. decipiens Cleve
    C. furcellatus Bailey
    C. septentrionalis Oestrup
    Thalassiosira sp.
    T. decipiens E. Jørgensen
    Triceratum sp.
  Pennales
    Achnanthes taeniata Grunow
    Amphiprora sp.
    A. concillans cleve
    Amphora sp.
    Bacillaria paradoxa Gimelin
    Cylindrotheca closterium Reimann et Lewin
    Cymbella sp.
    Diploneis sp.
    D. litoralis (Donkin) Cleve
    Fragilaria sp.
    Gomphonema sp.
    Gyrosigma sp.
    G. fasciola (Ehrenberg) Griffith et Henfrey
    Navicula sp.
    N. directa (Wm. Smith) Ralfs
    N. gastrum (Ehrenberg) Kützing
    N. imperfecta Cleve
    N. transitans Cleve
    N. valida Cleve et Grunow
    Nedium affine (Ehrenberg) Pfitzer
    Nitzschia sp.
    N. acicularis (Kützing) Wm. Smith
    N. cylindrus (Grunow) Hasle
    N. frigida Grunow
    N. frustulum (Kützing) Grunow
    N. linearis (Agardh) Wm. Smith
    N. seriata Cleve
    Pinnularia sp.

Table 2. (Continued)

P. quadratarea (Schmidt) Cleve
Pleurosigma sp.
P. marinum Donkin
Pseudonitzschia delicatissima (Cleve) Heiden
Stauroneis quadripedis (Cleve-Euler) Hendey

Chlorophyta
Chlamydomonas sp.
C. ballenyana Kol et Flint
C. pulsatilla Wohlenweber

Chrysophyta
Phaeocystis pouchetii (Hariot) Lagerheim

Cyanophyta
Spirulina sp.

Euglenophyta
Euglena sp.
E. proxima Dangeard
E. schmitzii Gojics

Pyrrophyta
Goniaulax sp.
Gymnodinium lohmanni Paulsen
Gyrodinium sp.

Table 3. Sea ice microalgae found in the stomach contents of Turbellaria, Rotifera, Nematoda and Polychaeta collected in the sea ice of Frobisher Bay during the ice season of 1984.

Predator	Date	Sea ice microalgae
Turbellaria	26 May	*Chlamydomonas* sp.
	"	*Chaetoceros furcellatus*, *Nitzschia frigida*, and *Chlamydomonas pulsatilla*
	"	*Chlamydomonas* sp.
Rotifera	9 March	*Cylindrotheca closterium*, *Nitzschia* sp., and *Chlamydomonas* sp.
	"	*Nitzschia* sp.
	26 May	*Thalassiosira* sp.
	"	*Chlamydomonas* sp.
Nematoda	9 March	*Chlamydomonas* sp.
	26 May	*Chlamydomonas* sp.
	"	*Chlamydomonas* sp.
	"	*Chaetoceros* sp. and *Chlamydomonas ballenyana*
Polychaeta larva	9 March	*Euglena proxima* and *Navicula* sp.
	"	*Nitzschia* sp.
	"	*Nitzschia frigida*, *N. linearis*, *Stauroneis quadripedis* and *Nitzschia* sp.
	26 May	*Chaetoceroa furcellatus* and *Chlamydomonas* sp.
	"	*Chlamydomonas ballenyana*

Table 3. (Continued)

Predator	Date	Sea ice microalgae
Calanoida		
Pseudocalanus sp.		
III	26 May	*Chlamydomonas* sp., *C. Ballenyana* and *Navicula* sp.
IV M	"	*Navicula* sp.
IV F	"	*Chlamydomonas* sp., *Navicula* sp. and *Nitzschia linearis*
V F	"	*Chlamydomonas* sp.

Table 4. Sea ice microalgae found in the stomach contents of Cyclopoida collected in the sea ice of Frobisher Bay during the ice season of 1984.

Predator	Date	Sea ice microalgae
Arctocyclopina pagonasta VI F	9 March	*Nitzschia linearis*
"	"	*Nitzschia linearis*
"	"	*Nitzschia linearis*
"	"	*Navicula* sp. and *Nitzschia* sp.
"	"	*Chaetoceros decipiens* and *Chlamydomonas* sp.
"	"	*Nitzschia* sp. and *Pleurosigma marinum*
"	26 May	*Chaetoceros furcellatus*, *Cymbella* sp. and *Navicula* sp.
"	"	*Chaetoceros furcellatus*, *Chlamydomonas ballenyana*, *Goniaulax* sp. *Navicula* sp. and *Thalassiosira decipiens*
Cyclopina gracilis VI M	26 May	*Chaetoceros* sp.
"	"	*Chlamydomonas* sp.
VI F	"	*Chaetoceros* sp.
"	"	*Chlamydomonas* sp.
"	"	*Chlamydomonas* sp.
"	"	*Chlamydomonas ballenyana*
"	"	*Chlamydomonas pulsatilla*

Table 4. (Continued)

Predator	Date	Sea ice microalgae
"	"	Chaetoceros furcellatus and Chlamydomonas ballenyana
"	"	Chaetoceros sp. and Thalassiosira sp.
"	"	Chlamydomonas ballenyana and Navicula sp.
"	"	Chlamydomonas sp. and C. pulsatilla
"	"	Chlamydomonas sp. and Spirulina sp.
"	"	Achnanthes taeniata, Chlamydomonas sp., Navicula sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., Navicula sp., N. transitans and N. valida
Cyclopina schneideri VI F	26 May	Diploneis sp.
"	"	Achnanthes taeniata and Phaeocystis pouchetii
"	"	Diploneis litoralis and Navicula sp.
"	"	Achnanthes taeniata, Fragilaria sp., Navicula sp. and Nitzschia linearis
"	"	Chlamydomonas ballenyana, C. pulsatilla, Gyrodinium sp., Navicula sp. and Pleurosigma marinum
"	9 March	Nitzschia frigida, N. linearis and Pseudonitzschia delicatissima
Cyclopininae nauplius	"	Amphiprora concilians, Gyrosigma sp., Pleurosigma sp. and Nitzschia sp.
III	"	Navicula imperfecta
IV	"	Chlamydomonas sp. and Gomphonema sp.

Table 5. Sea ice microalgae found in the stomach contents of Harpacticoida collected in the sea ice of Frobisher Bay during the ice season of 1984.

Predator	Date	Sea ice microalgae
Dactylopodia vulgaris		
VI M	26 May	*Chlamydomonas pulsatilla* and *Fragilaria* sp.
VI F	"	*Chaetoceros decipiens* and *Chlamydomonas* sp.
Halectinosoma finmarchicum		
VI M	26 May	*Chaetoceros decipiens*
VI F	"	*Chaetoceros furcellatus*, *Chlamydomonas ballenyana* and *Nitzschia* sp.
"	"	*Amphiprora* sp., *Chaetoceros furcellatus*, *Chlamydomonas* sp., *Navicula transitans*, *Nitzschia frigida* and *N. linearis*
Halectinosoma neglectum		
V	26 May	*Achnanthes taeniata* and *Chaetoceros furcellatus*
"	"	*Chlamydomonas* sp. and *Goniaulax* sp.
"	"	*Gomphonema* sp., *Navicula directa* and *Pleurosigma* sp.
"	"	*Cymbella* sp., *Chlamydomonas ballenyana* and *Navicula* sp.
VI M	26 May	*Chaetoceros furcellatus*
"	"	*Chlamydomonas* sp. and *Nitzschia frigida*
"	"	*Chlamydomonas* sp. and *Thalassiosira* sp.
"	"	*Achnanthes taeniata*, *Chlamydomonas pulsatilla* and *Nedium affine*

Table 5. (Continued)

Predator	Date	Sea ice microalgae
VI F	26 May	Chlamydomonas ballenyana, C. pulsatilla, Navicula sp. and Nitzschia frigida
"	"	Chlamydomonas ballenyana, Cymbella sp., Goniaulax sp., Nitzschia sp. and N. linearis
Harpacticus superflexus VI M	26 May	Chaetoceros furcellatus and Thalassiosira sp.
"	"	Chlamydomonas ballenyana and Gyrosigma fasciola
VI F	"	Chlamydomonas sp., C. ballenyana and Chaetoceros decipiens
Tisbe furcata nauplius	9 March	Chlamydomonas sp.
IV	26 May	Navicula sp.
V	9 March	Navicula sp.
"	"	Nitzschia cylindrus
"	26 May	Chlamydomonas pulsatilla
V M	9 March	Chaetoceros septentrionalis and Cylindrotheca closterium
V F	"	Chlamydomonas sp.
"	"	Chlamydomonas sp., Navicula gastrum and Triceratum sp.
"	"	Chlamydomonas sp., Cylindrotheca closterium, Navicula transitans, Nitzschia sp., N. seriata, Pinnularia sp. and Pseudonitzschia delicatissima
"	25 May	Chlamydomonas ballenyana

Table 5. (Continued)

Predator	Date	Sea ice microalgae
VI M	9 March	Gyrodinium sp. and Nitzschia linearis
"	"	Chlamydomonas sp., Navicula sp. and Nitzschia sp.
"	"	Cylindrotheca closterium, Navicula sp., Nitzschia cylindrus and N. frigida
"	"	Achnanthes taeniata, Bacillaria paradoxa, Gymnodinium lohmanni, Navicula transitans, Nitzschia acicularis and N. linearis
"	26 May	Chlamydomonas ballenyana
"	"	Chaetoceros furcellatus, Navicula sp. and Nitzschia linearis
"	"	Chlamydomonas ballenyana, Fragilaria sp. and Navicula sp.
"	"	Chaetoceros furcellatus, C. septentrionalis, Chlamydomonas sp., Cylindrotheca closterium and Navicula sp.
VI F	9 March	Nitzschia sp.
"	"	Pinnularia quadratarea
"	"	Navicula sp. and Nitzschia linearis
"	"	Navicula sp. and Stauroneis quadripedis
"	"	Nitzschia sp., N. cylindrus and N. frigida
"	"	Chlamydomonas sp., Nitzschia sp., and Pinnularia sp.
"	"	Navicula directa, N. imperfecta, Nitzschia frigida and Pinnularia sp.

Table 5. (Continued)

Predator	Date	Sea ice microalgae
"	"	Chlamydomonas sp., Nitzschia sp., N. cylindrus and Pinnularia quadratarea
"	"	Chlamydomonas sp., Euglena sp., Navicula sp., Nitzschia sp. and Pinnularia sp.
"	26 May	Chaetoceros furcellatus and Chlamydomonas sp.
"	"	Chlamydomonas ballenyana, Fragilaria sp., Navicula sp. and Pleurosigma sp.

Table 6. Sea ice microalgae found in the stomach contents of Amphipoda collected in the sea ice of Frobisher Bay during the ice season of 1984.

Predator	Date	Sea ice microalgae
Onisimus sp.	9 March	Chlamydomonas sp. and Nitzschia cylindrus.
"	"	Achnanthes taeniata, Amphora sp., Chaetoceros brevis, Chlamydomonas pulsatilla, Euglena sp., E. schmitzii, Fragilaria sp., Nitzschia sp., N. acicularis, N. frigida, N. frustulum and N. linearis
"	26 May	Achnanthes taeniata, Amphiprora sp., Chaetoceros decipiens, C. furcellatus, C. septentrionalis, Chlamydomonas sp., Euglena schmitzii, Navicula sp. and Nitzschia sp.

Table 7. Zooplankton with stomachs containing phytoplankton.

Cnidaria
- Bougainvillia superciliaris (L. Agassiz)
- Euphysa flammea (Linko)
- Halitholus cirratus Hartlaub
- H. pauper Hartlaub
- Hybocodon prolifer L. Agassiz
- Sarsia sp.

Ctenophora
- Beroe cucumis Fabricius
- Mertensia ovum (Fabricius)

Polychaeta
- Autolytus sp.
- Larvae, unidentified

Mollusca
- Clione limacina (Phipps)
- Spiratella helicina (Phipps)

Trochophore larvae, unidentified

Cladocera
- Philomedes globosa (Lilljeborg)

Calanoida
- Acartia longiremis (Lilljeborg)
- Calanus glacialis Jashnov
- C. hyperboreus Krøyer
- Euchaeta glacialis Hansen
- Metridia longa (Lubbock)
- Pseudocalanus sp.

Cyclopoida
- Cyclopina schneideri Scott
- Oithona similis Claus
- Oncaea borealis G. O. Sars

Harpacticoida
- Amenophia peltata Boeck
- Amonardia arctica (Scott)
- Dactylopodia vulgaris (G. O. Sars)
- Danielssenia sp.

Table 7. (Continued)

Harpacticus superflexus Willey
H. uniremis Krøyer
Stenhelia sp.
Tisbe furcata (Baird)

Monstrilloida
Monstrilla sp.

Cirripedia
Balanus nauplii

Amphipoda
Gammarus setosus Dementieva
Hyperia galba (Montagu)
Hyperoche medusarum (Krøyer)
Onisimus sp.
Parapleustes sp.
Parathemisto libellula (Lichtenstein)
Paroediceros lynceus (M. Sars)

Euphausiacea
Thysanoessa inermis (Krøyer)
T. raschii (M. Sars)

Decapoda
Sabinea septemcarinata (Sabine)
Larvae, unidentified

Chaetognatha
Sagitta elegans Verrill

Fishes
Larvae, unidentified

Table 8. Phytoplankton found in the stomach contents of zooplankton.

Bacillariophyta
  Centrales
    Chaetoceros sp.
    C. affinis Lauder
    C. borealis J.W. Bailey
    C. brevis Schütt
    C. decipiens Cleve
    C. fragilis Meunier
    C. furcellatus J.W. Bailey
    C. holsaticus Schütt
    C. lauderi Ralfs
    C. septentrionalis Oestrup
    C. socialis Lauder
    C. wighami Brightwell
    Coscinodiscus sp.
    C. oculusiridis var. borealis (J.W. Bailey) Cleve
    Cyclotella striata (Kützing) Grunow
    Leptocylindrus danicus Cleve
    Melosira sp.
    M. arctica (Ehrenberg) Dickie
    M. italica (Ehrenberg) Kützing
    Thalassiosira sp.
    T. decipiens (Grunow) E. Jørgensen
    T. nordenskioeldii Cleve
    T. oestrupii (Ostenfeld) Proschkina-Lavrenko
  Pennales
    Achnanthes taeniata Grunow
    Amphora laevis Gregory
    Cocconeis sp.
    C. dirupt Gregory
    C. scutellum Ehrenberg
    Cylindrotheca closterium (Ehrenberg) Reimann et Lewin
    Diploneis litoralis (Donkin) Cleve
    Eunotia sp.
    Fragilaria sp.
    F. islandica Grunow
    F. pinnata Ehrenberg
    F. striatula Lyngbye
    Fragilariopsis nana (Steemann-Neilsen) Paasche
    Gomphonema sp.
    G. augur Ehrenberg
    G. exiguum var. pachycladum (Brébisson) Cleve
    Grammatophora angulosa Ehrenberg
    Licmophora sp.
    Navicula sp.

Table 8. (Continued)

N. cancellata Donkin
N. crucigeroides Hustedt
N. cryptocephala Kützing
N. debilissima Grunow
N. directa (Wm. Smith) Ralfs
N. granii (E. Jorgensen) Gran
N. peregrina (Ehrenberg) Kützing
N. transitans Cleve
N. transitans var. derasa (Grunow) Cleve
N. trigonocephala Cleve
N. vanhoeffenii Gran
Nitzschia acicularis (Kützing) Wm. Smith
N. amphibia Grunow
N. bilobata var. minor Grunow
N. cylindrus (Grunow) Hasle
N. frigida Grunow
N. grunowii Hasle
N. linearis (Agardh) Wm. Smith
N. seriata Cleve
Pinnularia sp.
P. quadratarea (Schmidt) Cleve
Pleurosigma sp.
P. longinum Wm. Smith
Pseudonitzschia delicatissima (Cleve) Heiden
Rhabdonema arcuatum (Lyngbye) Kützing
R. minutum Kützing
Stauroneis quadripedis (Cleve-Euler) Hendey
Synedra sp.
Tabellaria flocculosa (Roth) Kützing

Chlorophyta
Chlamydomonas sp.
C. ballenyana Kol et Flint
C. cyst
C. pulsatilla Wohlenweber
C. quadrilobata N. Carter
C. tetraolaris Wohlenweber
Staurastrum sp.
Thalassomonas sp.

Chrysophyta
Phaeocystis pouchetii (Hariot) Lagerheim
Salpingoeca natans Grontved

Cryptophyta
Chroomonas sp.

Table 8. (Continued)

Cyanophyta
- Anabaena sp.
- Brachytrichia quoyi (C. Agardh) Bornet et Flahault
- Lyngbya sp.
- Spirulina sp.

Euglenophyta
- E. acus Ehrenberg
- E. agilis H.T. Carter
- E. geniculata Dujardin
- E. gracilis Klebs
- E. proxima Dangeard
- E. schmitzii Gojdics
- E. vermiformis Carter
- E. viridis Ehrenberg

Pyrrophyta
- Dinophysis sp.
- D. acuminata Claparède et Lachmann
- Glemodinium sp.
- Goniaulax sp.
- G. catenata Kofoid
- G. cyst
- Gymnodinium sp.
- G. cyst
- G. lohmanni Paulsen
- Gyrodinium spirale (Bergh) Kofoid et Swezy
- Oxytoxum sp.
- Peridinium sp.
- P. diabolus Cleve
- P. minusculum Pavillard
- Prorocentrum sp.
- P. micans Ehrenberg
- P. rampii Sournia

Table 9. Phytoplankton taxa found in the stomach contents of Cnidaria from Frobisher Bay during the summers of 1982-1984.

Predator	Date	Phytoplankton
Bougainvillia superciliaris	Aug. 1982	Chlamydomonas sp.
"	"	Euglena schmitzii
"	"	Chlamydomonas sp. and Euglena schmitzii
"	"	Chlamydomonas sp., C. pulsatilla and Prorocentrum sp.
"	"	Chlamydomonas sp., C. ballenyana, Cocconeis sp. and Euglena schmitzii
"	13 Aug 1983	Chlamydomonas sp., Euglena proxima and E. schmitzii
"	"	Chlamydomonas sp., Euglena schmitzii and Thalassiosira sp.
"	17 Aug 1983	Chaetoceros sp., C. furcellatus, Chlamydomonas sp., Fragilaria sp., Prorocentrum rampii
"	"	Chaetoceros sp., C. furcellatus, C. septentrionalis, Chlamydomonas sp., Coscinodiscus sp., Euglena proxima, E. schmitzii, Navicula sp., N. transitans, Prorocentrum micans, Thalassiosira sp., and T. decipiens
Euphysa flammea	19 Aug 1983	Chlamydomonas sp.
Halitholus cirratus	13 Aug 1983	Chaetoceros furcellatus, Chlamydomonas sp., C. pulsatilla, Euglena sp., E. schmitzii, Synedra sp., Thalassiosira sp. and T. decipiens

Table 9. (Continued)

Predator	Date	Phytoplankton
"	19 Aug 1983	Chaetoceros decipiens, C. furcellatus, Chlamydomonas sp., C. ballenyana, Euglena schmitzii, Navicula granii, Prorocentrum rampii, Thalassiosira sp.
"	"	Achnanthes taeniata, Chaetoceros decipiens, C. septentrionalis, Chlamydomonas sp., C. ballenyana, Euglena schmitzii, E. viridis, Navicula sp., N. granii and Thalassirosira sp.
"	"	Chaetoceros decipiens, Chlamydomonas sp., Coscinodiscus sp., Euglena proxima and E. schmitzii
H. pauper	17 Aug 1983	Chlamydomonas sp.
Hybocodon prolifer	12 Aug 1983	Chlamydomonas sp.
"	19 Aug 1983	Chlamydomonas sp. and C. pulsatilla
"	21 Aug 1984	Chaetoceros furcellatus, Chlamydomonas sp. and C. pulsatilla
Sarsia sp.	Aug 1982	Chlamydomonas sp. and Prorocentrum rampii
"	"	Chlamydomonas sp., Euglena proxima, E. schmitzii, Fragilaria sp., Navicula crucigeroides and Prorocentrum rampii
"	"	Chlamydomonas sp., Euglena schmitzii, Fragilaria sp., Navicula peregrina, Prorocentrum rampii and Thalassiosira decipiens
"	"	Chlamydomonas sp., C. pulsatilla, Euglena schmitzii, Navicula sp., Phaeocystis pouchetii

Table 9. (Continued)

Predator	Date	Phytoplankton
"	"	Chlamydomonas sp., C. pulsatilla, Euglena proxima, E. schmitzii, Fragilaria sp., Phaeocystis pouchetii, Prorocentrum sp., and Thalassiosira oestrupii
"	12 Aug 1983	Achnanthes taeniata, Chaetoceros sp., C. furcellatus, C. wighami, Chlamydomonas sp., C. pulsatilla, Euglena proxima, E. schmitzii, Fragilaria sp., Leptocylindrus danicus, Melosira italica, Navicula sp., N. debilissima, Nitzschia cylindrus, Rhabdonema minutum, Thalassiosira sp. and T. decipiens
"	17 Aug 1983	Chlamydomonas sp., C. ballenyana, C. pulsatilla, Euglena schmitzii and Eunotia sp.
"	19 Aug 1983	Chaetoceros decipiens, C. furcellatus, Chlamydomonas sp., Cocconeis dirupta, Euglena sp., Gomphonema sp. and Thalassiosira sp.

Table 10. Phytoplankton taxa found in the stomach contents of Ctenophora from Frobisher Bay during the summers of 1982 and 1983.

Predator	Date	Phytoplankton
Beroe sp.	Aug 1982	Chlamydomonas sp., Euglena schmitzii, Glenodinium sp., Gymnodinium lohmanni, Phaeocystis pouchetii and Prorocentrum sp.
Mertensia ovum	Aug 1982	Chlamydomonas pulsatilla
"	"	Chlamydomonas sp., Fragilariopsis nana and Nitzschia grunowii
"	"	Chlamydomonas sp., C. pulsatilla, Prorocentrum sp. and P. rampii
"	"	Chaetoceros holsaticus, C. wighami, Chlamydomonas sp., Coscinodiscus sp., Leptocylindrus danicus, Nitzschia grunowii and Thalassiosira sp.
"	"	Chaetoceros borealis, Chlamydomonas sp., Coscinodiscus sp., Euglena schmitzii, Fragilaria sp., Prorocentrum micans and P. rampii
"	"	Chaetoceros wighami, Chlamydomonas sp., Goniaulax sp., Thalassiosira sp., and T. decipiens.
"	3 Aug 1983	Achnanthes taeniata, Chaetoceros sp., Chlamydomonas sp., Coscinodiscus sp., C. oculusiridis var. borealis, Fragilaria islandica, F. striatula, Grammatophora arctica, Melosira arctica, M. islandica, Nitzschia grunowii, N. tinearis, Prorocentrum rampii and Thalassiosira sp.
"	17 Aug 1983	Chaetoceros brevis, C. furcellatus, Chlamydomonas sp., Euglena schmitzii, Thalassiosira sp. and T. decipiens

Table 10. (Continued)

Predator	Date	Phytoplankton
"	"	Chaetoceros decipiens, C. furcellatus, Chlamydomonas sp., Fragilaria islandica, Leptocylindrus danicus, Navicula sp., N. directa, N. granii, Nitzschia cylindrus, N. grunowii, N. seriata, Thalassiosira sp., T. decipiens and T. nordenskioeldii
"	26 Aug 1983	Chlamydomonas sp., Melosira italica, Navicula sp., N. transitans and Thalassiosira decipiens
"	"	Chaetoceros decipiens, C. furcellatus, Chlamydomonas sp., Navicula transitans, Synedra sp., Tabellaria flocculosa, Thalassiosira sp. and T. decipiens
"	"	Chaetoceros sp., C. brevis, C. decipiens, C. furcellatus, Chlamydomonas sp., C. ballenyana, Euglena proxima, E. schmitzii, Melosira italica, Nitzschia grunowii, Prorocentrum sp., Thalassiosira sp. and T. decipiens

Table 11. Phytoplankton taxa found in the stomach contents of Polychaeta from Frobisher Bay during the summers of 1982-1984.

Predator	Date	Phytoplankton
Autolytus sp.	Aug 1982	Chaetoceros septentrionalis
"	"	Chlamydomonas sp., Euglena schmitzii, E. vermiformis and Prorocentrum sp.
"	"	Chlamydomonas sp., C. ballenyana, C. pulsatilla, Euglena geniculata, E. schmitzii and Thalassiosira sp.
"	"	Chaetoceros wighami, Chlamydomonas sp., Euglena sp., E. schmitzii, Melosira sp. and Prorocentrum rampii
" F	19 Aug 1983	Chlamydomonas sp.
" F	"	Chaetoceros decipiens and Chlamydomonas sp.
" F	"	Chlamydomonas sp., Euglena proxima, Glenodinium sp. and Thalassiosira sp.
Autolytus sp.	4 Aug 1984	Chlamydomonas ballenyana
Larva, unidentified	3 Aug 1983	Chlamydomonas sp.
"	6 Aug 1983	Chaetoceros brevis, C. furcellatus, C. wighami, Chlamydomonas sp., Nitzschia acicularis and N. seriata.
"	9 Aug 1983	Chaetoceros brevis, C. decipiens, C. furcellatus, Chlamydomonas sp., Fragilaria islandica, Leptocylindrus danica, Melosira italica, Nitzschia linearis and Thalassiosira decipiens

Table 11. (Continued)

Predator	Date	Phytoplankton
"	30 July 1984	Euglena proxima
"	"	Chaetoceros furcellatus and C. septentrionalis
"	"	Chaetoceros furcellatus and Chlamydomonas ballenyana
"	"	Chaetoceros furcellatus and Chlamydomonas ballenyana
"	"	Chaetoceros decipiens and Goniaulax sp.
"	"	Chaetoceros septentrionalis, Chlamydomonas sp. and Nitzschia linearis
"	"	Chaetoceros furcellatus, Chlamydomonas pulsatilla, Licmophora sp., Navicula sp. and Thalassiosira decipiens

Table 12. Phytoplankton taxa found in the stomach contents of Mollusca, Trochophore and Cladocera from Frobisher Bay during the summers of 1982-1984.

Predator	Date	Phytoplankton
Mollusca *Clione limacina*	Aug 1982	*Chlamydomonas pulsatilla*
"	"	*Prorocentrum* sp.
"	"	*Chlamydomonas* sp. and *C. pulsatilla*
Spiratella helicina	Aug 1982	*Chlamydomonas* sp.
"	"	*Chaetoceros* sp., *C. wighami*, *Chlamydomonas* sp., *C. pulsatilla*, *Euglena* sp. and *Prorocentrum* sp.
Trochophore Larvae, unidentified	6 Aug 1983	*Chaetoceros* sp., *C. brevis*, *Cyclotella striata*, *Navicula* sp., *N. granii*, *Nitzschia grunowii*, *Thalassiosira decipiens* and *T. nordenskioeldii*
Cladocera *Philomedes globosa*	7 Aug 1984	*Chaetoceros furcellatus* and *Chlamydomonas ballenyana*
"	"	*Chlamydomonas ballenyana*, *Prorocentrum* sp. and *Thalassiosira* sp.

Table 13. Phytoplankton taxa found in the stomach contents of Calanoida from Frobisher Bay under the ice and during the open water seasons of 1982-1985.

Predator	Date	Phytoplankton
Acartia longiremis	30 July 1984	Chaetoceros decipiens
"	"	Chaetoceros furcellatus
"	"	Chroomonas monococca
"	"	Chaetoceros decipiens and C. furcellatus
Calanus glacialis	Aug 1982	Chlamydomonas sp.
"	"	Chlamydomonas sp., Euglena schmitzii and Prorocentrum sp.
"	"	Chlamydomonas sp., Navicula directa and Pinnularia sp.
"	"	Chaetoceros sp., Chlamydomonas sp., C. pulsatilla, Euglena schmitzii and Prorocentrum micans
"	"	Anabaena sp., Chaetoceros septentrionalis, Chlamydomonas sp., C. pulsatilla, Euglena schmitzii and Nitzschia grunowii
"	"	Chaetoceros septentrionalis, Chlamydomonas sp., C. pulsatilla, Euglena agilis, E. schmitzii, Oxytoxum sp., Prorocentrum micans and P. rampii
V	"	Chlamydomonas sp. and Prorocentrum sp.
"	"	Chlamydomonas sp., Nitzschia cylindrus and Prorocentrum sp.
"	"	Chlamydomonas sp., Nitzschia cylindrus and Prorocentrum sp.
VI F	"	Chlamydomonas sp., Lyngbya sp. and Thalassiosira sp.

Predator	Date	Phytoplankton
"	"	Chaetoceros brevis, Thalassiosira sp. and T. nordenskioeldii
"	"	Chaetoceros brevis, Chlamydomonas sp., Euglena schmitzii, Fragilaria islandica, Fragilariopsis nana, Navicula directa, Nitzschia frigida, N. grunowii, Stauroneis quadripedis and Thalassiosira sp.
"	10 Aug 1983	Chlamydomonas sp.
"	"	Chlamydomonas sp. and Euglena sp.
"	"	Chaetoceros decipiens, Chlamydomonas sp., Navicula sp. and Thalassiosira sp.
"	10 Aug 1983	Chaetoceros decipiens, Chlamydomonas sp., Navicula sp. and Thalassiosira sp.
"	"	Chaetoceros brevis, C. septentrionalis, Chlamydomonas sp., Euglena sp. and Navicula transitans
"	12 Aug 1983	Chaetoceros sp., C. wighami and Chlamydomonas sp.
"	"	Chaetoceros furcellatus, Melosira italica and Nitzschia linearis
"	5 Aug 1983	Chlamydomonas sp., Euglena schmitzii, E. viridis, Navicula vanhoeffenii, Nitzschia grunowii and Thalassiosira sp.
"	"	Chaetoceros brevis, C. furcellatus, C. wighami, Chlamydomonas sp., C. pulsatilla, Euglena schmitzii, Navicula sp., N. vanhoeffenii, Nitzschia grunowii, Prorocentrum sp. and Thalassiosira sp.

Table 13. (Continued)

Predator	Date	Phytoplankton
"	6 Aug 1983	Chaetoceros brevis, C. furcellatus, C. septentrionalis, Chlamydomonas sp., Fragilaria islandica, Nitzschia seriata and Thalassiosira sp.
"	9 Aug 1983	Chaetoceros septentrionalis, Chlamydomonas sp., Leptocylindrus danicus, Navicula sp., Nitzschia grunowii and Thalassiosira sp.
"	"	Chaetoceros brevis, C. decipiens, C. furcellatus, Leptocylindrus danicus, Nitzschia grunowii, Pseudonitzschia delicatissima, Thalassiosira sp. and T. decipiens
"	17 Aug 1983	Thalassiosira sp.
"	"	Chaetoceros furcellatus, Chlamydomonas sp., Gomphonema sp., Thalassiosira sp. and T. decipiens
Calanus hyperboreus	Aug 1982	Chaetoceros sp.
"	"	Chlamydomonas sp.
"	"	Chlamydomonas sp.
"	"	Chlamydomonas pulsatilla and Glenodinium sp.
"	"	Chlamydomonas sp. and Thalassiosira sp.
"	"	Chaetoceros brevis, Leptocylindrus danicus and Prorocentrum micans
"	"	Chaetoceros fragilis, Chlamydomonas sp., Coscinodiscus sp. and Nitzschia cylindrus

Table 13. (Continued)

Predator	Date	Phytoplankton
"	"	Chlamydomonas sp., C. pulsatilla and Prorocentrum rampii
VI F	"	Chlamydomonas pulsatilla
"	"	Chlamydomonas sp., C. pulsatilla and Dinophysis acuminata
"	"	Chaetoceros brevis, Chlamydomonas sp., C. cysts and Goniaulax sp.
"	17 Aug 1983	Chlamydomonas ballenyana, Goniaulax cysts, Thalassiosira sp. and T. decipiens
"	"	Chlamydomonas sp., Nitzschia cylindrus, N. grunowii, Thalassiosira sp. and T. decipiens
"	19 Aug 1983	Chaetoceros furcellatus, Chlamydomonas sp., Goniaulax sp., Navicula sp., Nitzschia grunowii, Prorocentrum sp., Thalassiosira sp. and T. decipiens
"	21 Aug 1984	Chaetoceros affinis and Thalassiosira decipiens
"	"	Chaetoceros furcellatus, Chlamydomonas pulsatilla and Nitzschia cylindrus
"	"	Chaetoceros furcellatus, C. septentrionalis, Chlamydomonas sp., Cylindrotheca closterium and Navicula sp.
"	"	Chaetoceros furcellatus, Chlamydomonas pulsatilla, Euglena schmitzii, Navicula sp. and Nitzschia grunowii
"	"	Chaetoceros decipiens, C. furcellatus, C. septentrionalis, Chlamydomonas sp., Dinophysis sp. and Nitzschia grunowii

Table 13. (Continued)

Predator	Date	Phytoplankton
"	"	Amphiprora sp., Chaetoceros decipiens, C. furcellatus, Chlamydomonas sp., Navicula sp., N. debilissima, Nitzschia grunowii and Thalassiosira sp.
Euchaeta glacialis	17 Aug 1983	Chaetoceros sp., Chlamydomonas sp. Euglena proxima, Prorocentrum rampii and Thalassiosira sp.
"	19 Aug 1983	Chlamydomonas sp.
Metridia longa	Aug 1982	Chlamydomonas sp. and Rhabdonema arcuatum
VI M	13 Aug 1984	Chlamydomonas sp. and Euglena sp.
"	21 Aug 1984	Chaetoceros furcellatus
VI F	"	Nitzschia sp.
"	"	Achnanthes taeniata, Chaetoceros decipiens, C. furcellatus, Euglena sp., Navicula sp., N. cryptocephala, Nitzschia cylindrus, N. grunowii, Peridinium diabolus, Thalassiosira sp. and T. decipiens
Pseudocalanus sp.	May 1982	Chlamydomonas ballenyana and Prorocentrum rampii
"	"	Chlamydomonas sp., Prorocentrum sp. and P. rampii
"	"	Chlamydomonas sp., C. ballenyana and Prorocentrum sp.
"	"	Chlamydomonas sp., Euglena schmitzii, Fragilariopsis nana and Nitzschia grunowii

Table 13. (Continued)

Predator	Date	Phytoplankton
III	"	Chaetoceros sp., C. decipiens, C. wighami, Thalassiosira sp. and T. decipiens
V F	"	Chlamydomonas sp. and C. pulsatilla
VI F	"	Chaetoceros sp., C. decipiens, C. fragilis, C. wighami, Peridinium minusculum, Thalassiosira sp., T. decipiens and T. nordenskioeldii
"	Aug 1982	Chaetoceros brevis, C. decipiens, C. furcellatus, C. septentrionalis, C. wighami, Leptocylindrus danicus and Nitzschia seriata
"	"	Chaetoceros sp., C. furcellatus, C. septentrionalis, C. wighami, Navicula vanhoeffenii, Nitzschia seriata and Thalassiosira decipiens
"	"	Chaetoceros decipiens, C. furcellatus, C. septentrionalis, C. wighami, Chlamydomonas sp., C. pulsatilla, Navicula crucigeroides, Nitzschia acicularis, Thalassiosira sp. and T. decipiens
"	Aug 1982	Chaetoceros sp., C. brevis, C. decipiens, C. fragilis, C. septentrionalis, C. socialis, Chlamydomonas sp., Euglena schmitzii, Fragilariopsis nana, Leptocylindrus danicus, Navicula crucigeroides and Thalassiosira decipiens
Pseudocalanus sp.	9 Aug 1983	Nitzschia grunowii and Prorocentrum sp.
"	"	Navicula granii, Peridinium sp. and Thalassiosira sp.
IV	3 Aug 1983	Chlamydomonas sp., Euglena sp. and Thalassiosira sp.

Table 13. (Continued)

Predator	Date	Phytoplankton
VI F	"	Chlamydomonas sp., Nitzschia grunowii, Prorocentrum sp. and Thalassiosira decipiens
"	4 Aug 1983	Chaetoceros sp., Chlamydomonas sp., Euglena schmitzii and Navicula sp.
"	5 Aug 1983	Chlamydomonas sp., Euglena proxima and E. schmitzii
"	"	Chlamydomonas sp., Navicula sp. and Thalassiosira sp.
"	6 Aug 1983	Chaetoceros brevis, Melosira italica and Thalassiosira decipiens
"	"	Chaetoceros brevis, C. furcellatus, Chlamydomonas sp. and Cylindrotheca closterium
"	"	Chaetoceros furcellatus, C. wighami, Leptocylindrus danicus and Nitzschia seriata
"	"	Leptocylindricus danicus, Navicula vanhoeffenii, Nitzschia seriata and Thalassiosira sp.
"	9 Aug 1983	Chaetoceros brevis, Chlamydomonas sp. and Nitzschia cylindrus
"	"	Thalassiosira sp.
"	"	Biddulphia mobiliensis, Chaetoceros sp., C. furcellatus, C. lauderi, Chlamydomonas sp., Leptocylindrus danicus, Navicula sp. and Nitzschia grunowii

Table 13. (Continued)

Predator	Date	Phytoplankton
V M	13 Mar 1984	*Thalassiosira* sp.
Pseudocalanus sp.	March 1985	*Chlamydomonas* sp. and *C. ballenyana*
"	"	*Chlamydomonas ballenyana* and *Thalassiosira* sp.

Table 14. Phytoplankton taxa found in the stomach contents of Cyclopoida from Frobisher Bay under the ice and during the open water seasons of 1984.

Predator	Date	Phytoplankton
Cyclopina schneideri	13 March	Chlamydomonas sp.
"	30 July	Chaetoceros furcellatus, C. septentrionalis and Chlamydomonas ballenyana
Oithona similis VI F	30 July	Chaetoceros sp.
"	"	Chlamydomonas ballenyana
"	"	Chlamydomonas pulsatilla
Oncaea borealis VI F	13 March	Chaetoceros sp.
"	"	Chlamydomonas sp.
"	30 July	Chaetoceros furcellatus
"	"	Chaetoceros furcellatus
"	"	Chaetoceros furcellatus and C. decipiens
"	"	Chaetoceros furcellatus and Navicula sp.
"	5 Aug.	Chlamydomonas sp. and Thalassiosira sp.
"	7 Aug	Chaetoceros furcellatus
"	13 Aug	Prorocentrum sp.
"	13 Aug	Chaetoceros furcellatus and Chlamydomonas sp.

Table 15. Phytoplankton taxa found in the stomach contents of Harpacticoida from Frobisher Bay under the ice and during the open water seasons of 1982-1985.

Predator	Date	Phytoplankton
Amenophia peltata	Aug 1982	Chaetoceros spore, Chlamydomonas tetraolaris and Nitzschia frigida
Amonardia arctica	5 Aug 1983	Chaetoceros furcellatus, Chlamydomonas sp., Nitzschia grunowii, Phaeocystis pouchetii and Thalassiosira sp.
Dactylopodia vulgaris VI F	7 Aug 1984	Thalassiosira sp.
Danielssenia sp VI F	30 July 1984	Chlamydomonas sp.
Harpacticus superflexus	Aug 1982	Chaetoceros fragilis
H. uniremis VI F	3 Aug 1983	Achnanthes taeniata, Chaetoceros sp., Cylindrotheca closterium, Fragilaria pinnata, Lyngbya sp., Navicula sp., Nitzschia grunowii and N. seriata
"	5 Aug 1983	Chlamydomonas sp., Euglena schmitzii, Fragilaria sp., Goniaulax sp., Navicula sp., N. transitans var. derasa and Nitzschia acicularis
"	5 Aug 1983	Chaetoceros brevis, C. furcellatus, C. wighami, Chlamydomonas sp., C. pulsatilla, Cylindrotheca closterium, Euglena proxima, Lyngbya sp., Navicula sp., N. vanhoeffenii, Nitzschia sp. and Thalassiosira sp.
Stenhelia sp. VI F	30 July 1984	Chaetoceros furcellatus, Chlamydomonas ballenyana and Thalassiosira sp.

Table 15. (Continued)

Predator	Date	Phytoplankton
"	"	Chaetoceros decipiens, C. furcellatus, Chlamydomonas ballenyana and C. pulsatilla
Tisbe furcata	4 Aug 1983	Chlamydomonas ballenyana, Euglena viridis, Navicula transitans var. derasa, Nitzschia acicularis and Prorocentrum sp.
"	6 Aug 1983	Achnanthes taeniata, Nitzschia cylindrus and N. grunowii
"	9 Aug 1983	Chaetoceros decipiens, C. furcellatus, C. wighami, Chlamydomonas sp., Navicula sp., Nitzschia cylindrus and Thalassiosira sp.
VI F	12 Aug 1983	Chlamydomonas sp.
V	11 Mar 1984	Navicula sp.
V F	"	Chlamydomonas sp.
"	13 Mar 1984	Chlamydomonas sp.
VI M	"	Chlamydomonas sp.
"	"	Chlamydomonas sp.
VI F	11 Mar 1984	Chlamydomonas sp., Nitzschia sp. and Pinnularia sp.
"	13 Mar 1984	Navicula sp., Nitzschia sp. and N. cylindrus
Tisbe furcata	April 1985	Brachytrichia quoyi
"	"	Chlamydomonas ballenyana
"	"	Chlamydomonas ballenyana

Table 15. (Continued)

Predator	Date	Phytoplankton
"	"	Chlamydomonas ballenyana
"	"	Chlamydomonas ballenyana
"	"	Chlamydomonas ballenyana
"	"	Thalassiosira sp.

Table 16. Phytoplankton taxa found in the stomach contents of Monstrilloida and Cirripedia from Frobisher Bay during the summers of 1982-1984.

Predator	Date	Phytoplankton
Monstrilloida		
Monstrilla sp.	6 Aug. 1983	Chlamydomonas sp.
Cirripedia		
Balanus nauplii	Aug 1982	Fragilaria islandica and Thalassiosira sp.
"	"	Chaetoceros brevis, Diploneis litoralis, Nitzschia cylindrus and Thalassiosira sp.
"	"	Chaetoceros wighami, Coscinodiscus sp., Melosira arctica, Nitzschia cylindrus, N. seriata and Thalassiosira sp.
"	"	Chaetoceros wighami, Coscinodiscus sp., Fragilariopsis nana, Grammatophora angulosa, Pleurosigma longinum, Stauroneis quadripedis and Thalassiosira sp.
"	"	Chaetoceros brevis, C. septentrionalis, C. wighami, Coscinodiscus sp., Lyngbya sp., Navicula sp., Tabellaria flocculosa and Thalassiosira sp.
"	3 Aug 1983	Chlamydomonas sp., Leptocylindrus danicus and Thalassiosira sp.
"	"	Chaetoceros brevis, C. septentrionalis, Chlamydomonas sp., Thalassiosira sp. and T. nordenskioeldii
"	"	Achnanthes taeniata, Chaetoceros decipiens, C. furcellatus, Navicula sp., N. vanhoeffenii, Nitzschia linearis, Thalassiosira sp. and Chlamydomonas sp.

Table 16. (Continued)

Predator	Date	Phytoplankton
"	9 Aug 1983	Achnanthes taeniata, Chaetoceros decipiens, C. furcellatus, Chlamydomonas sp., Navicula sp., N. vanhoeffenii, Nitzschia linearis and Thalassiosira sp.
"	30 July 1984	Navicula sp.
"	"	Chaetoceros affinis, C. decipiens and C. septentrionalis

Table 17. Phytoplankton taxa found in the stomach contents of Amphipoda from Frobisher Bay under the ice and during the open water seasons of 1982-1985.

Predator	Date	Phytoplankton
Gammarus setosus	Aug 1982	Anabaena sp., Chlamydomonas sp., C. pulsatilla and Euglena proxima
"	"	Chlamydomonas sp., C. pulsatilla, Euglena schmitzii, Fragilaria sp., Nitzschia grunowii, Prorocentrum micans and Thalassiosira sp.
"	"	Chlamydomonas sp., C. pulsatilla, Cocconeis scutellum, Euglena schmitzii, E. viridis, Eunotia sp., Nitzschia sp., Prorocentrum micans, P. rampii and Salpingoeca natans
"	5 Aug 1983	Achnanthes taeniata, Chaetoceros brevis, C. furcellatus, C. septentrionalis, Chlamydomonas sp., C. ballenyana, C. pulsatilla, Cylindrotheca closterium, Euglena sp., E. acus, E. proxima, E. schmitzii, Fragilaria sp., F. islandica, Glenodinium sp., Gymnodinium lohmanni, Leptocylindrus danicus, Melosira italic Navicula granii, Nitzschia acicularis, N grunowii, Phaeocystis pouchetii, Prorocentrum sp., P. micans, P. rampii, Pseudonitzschia delicatissima and Thalassiosira decipiens
Hyperia galba	17 Aug 1983	Chlamydomonas sp., C. ballenyana, C. pulsatilla, Euglena proxima, E. viridis, Eunotia sp., Peridinium sp., Prorocentrum sp., Thalassiosira sp. and T. decipiens
Hyperoche medusarum	Aug 1982	Chlamydomonas sp.
"	"	Chlamydomonas sp. and Euglena schmitzii

Table 17. (Continued)

Predator	Date	Phytoplankton
"	"	Chlamydomonas sp. and Prorocentrum sp.
"	"	Chlamydomonas sp., Euglena Schmitzii, Prorocentrum sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., Euglena schmitzii, Nitzschia cylindrus and Prorocentrum sp.
"	"	Chlamydomonas sp., C. pulsatilla, Euglena schmitzii, Prorocentrum sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., C. ballenyana, C. pulsatilla, C. tetraolaris, Dinophysis sp., Euglena schmitzii, Navicula directa, Prorocentrum micans and P. rampii
"	13 Aug 1983	Chlamydomonas sp. and Thalassiosira sp.
"	21 Aug 1984	Chaetoceros furcellatus and Gymnodinum sp.
Onisimus sp.	Aug 1982	Chlamydomonas sp.
"	"	Chlamydomonas sp., C. pulsatilla and Fragilaria sp.
"	"	Chlamydomonas sp., Prorocentrum micans and P. rampii
"	"	Chlamydomonas tetraolaris, Goniaulax sp., Pleurosigma sp. and Prorocentrum micans
"	"	Chaetoceros furcellatus, Chlamydomonas sp., C. pulsatilla, Cocconeis scutellum and Prorocentrum sp.

Table 17. (Continued)

Predator	Date	Phytoplankton
"	"	Chlamydomonas pulsatilla, Euglena sp., Goniaulax sp., Prorocentrum sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., C. pulsatilla, Lyngbya sp., Nitzschia sp., Prorocentrum sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., Euglena schmitzii and Fragilaria sp.
"	"	Chlamydomonas sp., C. ballenyana, Euglena proxima and Prorocentrum sp.
"	"	Chlamydomonas sp., C. ballenyana, Euglena proxima, E. schmitzii and Prorocentrum sp.
"	"	Chlamydomonas sp., C. ballenyana, C. Pulsatilla, Euglena schmitzii and Thalassiosira decipiens
"	"	Chlamydomonas sp., Euglena sp., E. schmitzii, Prorocentrum micans and Thalassiosira sp.
"	"	Chaetoceros sp., Chlamydomonas pulsatilla, Euglena agilis, Fragilariopsis nana, Melosira sp., Nitzschia cylindrus and Thalassiosira sp.
"	5 Aug 1983	Achnanthes taeniata, Chaetoceros furcellatus, Chlamydomonas sp., C. ballenyana, C. pulsatilla, C. quadrilobata, Euglena sp., E. proxima, E. schmitzii, E. viridis, Navicula sp., N. trigonocephala, Nitzschia grunowii, N. linearis, Prorocentrum sp., P. micans and Thalassiosira decipens

Table 17. (Continued)

Predator	Date	Phytoplankton
"	13 Aug 1983	Chaetoceros furcellatus and Chlamydomonas sp.
"	"	Chlamydomonas sp. and Leptocylindrus danicus
"	"	Chaetoceros brevis, C. furcellatus, Chlamydomonas sp., Leptocylindrus danicus, Navicula sp., N. transitans and Thalassiosira sp.
"	17 Aug 1983	Chlamydomonas sp., C. ballenyana, Navicula sp. and Thalassiosira sp.
"	"	Chaetoceros furcellatus, Chlamydomonas sp., Euglena viridis, Prorocentrum rampii and Thalassiosira sp.
"	"	Chaetoceros sp., Chlamydomonas sp., Fragilaria pinnata, Navicula sp., Nitzschia seriata and Thalassiosira decipiens
"	19 Aug 1983	Chaetoceros holsaticus and Chlamydomonas sp.
"	"	Chaetoceros wighami, Chlamydomonas sp. and Thalassiosira decipiens
"	"	Chaetoceros sp., Chlamydomonas sp., C. pulsatilla, Euglena sp. and Thalassiosira decipiens
"	"	Chlamydomonas sp., Fragilaria pinnata, Navicula sp., Prorocentrum rampii and Thalassiosira sp.
"	"	Chlamydomonas sp., C. pulsatilla, Coscinodiscus sp., Euglena acus, Nitzschia cylindrus, Thalassiosira sp. and T. decipiens

Table 17. (Continued)

Predator	Date	Phytoplankton
"	30 July 1984	Chaetoceros sp.
"	"	Chlamydomonas sp.
"	21 Aug 1984	Chlamydomonas pulsatilla, Nitzschia cylindrus and Prorocentrum rampii
"	April 1985	Chlamydomonas ballenyana, C. pulsatilla, Goniaulax sp., G. cysts and Nitzschia frigida
"	"	Chlamydomonas sp., C. ballenyana, C. pulsatilla, Euglena sp., E. geniculata and E. proxima
"	"	Chlamydomonas pulsatilla, Dinophysis sp., Gomphonema augur, Navicula cancellata, Nitzschia frigida, Thalassiosira sp. and T. decipiens
"	"	Chlamydomonas pulsatilla, Dinophysis sp., Gyrodinium spirale, Navicula sp., Nitzschia frigida, Prorocentrum rampii and Spirulina sp.
"	"	Chaetoceros septentrionalis, Chlamydomonas pulsatilla, Dinophysis sp., Euglena schmitzii, Gomphonema augur, Navicula transitans, Nitzschia bilobata var. minor, N. frigida, N. linearis and Pinnularia quadratarea
"	"	Chlamydomonas sp., C. ballenyana, C. pulsatilla, Euglena acus, E. schmitzii, Navicula sp., Pleurosigma sp., Prorocentrum sp. and Thalassiosira sp.
"	"	Chlamydomonas pulsatilla, Euglena sp., E. geniculata, Gomphonema sp., G. augur, G. exiguum var. pachyclada, Nitzschia bilobata var. minor, N. frigida, N. linearis and Peridinium sp.

Table 17. (Continued)

Predator	Date	Phytoplankton
"	"	Chlamydomonas ballenyana, C. pulsatilla, Cylindrotheca closterium, Dictyocha sp., Euglena acus, E. schmitzii, Gyrodinium spirale, Nitzschia sp., Prorocentrum sp., P. rampii and Spirulina sp.
"	"	Amphiprora alata, Chaetoceros septentrionalis, Chlamydomonas ballenyana, C. Pulsatilla, Euglena sp., E. geniculata, E. proxima, Fragilaria striatula, Gomphonema sp., G. augur, G. exiguum var. pachyclada, Navicula sp., N. transitans, Nitzschia amphibia, N. bilobata var. minor, N. frigida, N. grunowii, N. linearis and Pleurosigma sp.
"	"	Achnanthes taeniata, Chlamydomonas pulsatilla, Dictyocha sp., Euglena sp., E. geniculata, E. schmitzii, Gomphonema sp., G. augur, Navicula sp., Nitzschia sp., N. amphibia, N. bilobata var. minor, N. delicatissima, N. frigida, N. gelida, N. grunowii, N. linearis and Prorocentrum sp.
Parapleustes sp.	Aug 1982	Chlamydomonas sp., Euglena proxima, E. schmitzii and Prorocentrum sp.
Parathemisto libellula	Aug 1982	Chaetoceros wighami and Chlamydomonas pulsatilla
"	"	Chlamydomonas sp. and Prorocentrum rampii
"	"	Chlamydomonas sp., C. pulsatilla and Prorocentrum sp.
"	"	Chlamydomonas sp., Chroomonas sp., Euglena schmitzii, Nitzschia grunowii and Prorocentrum sp.

Table 17. (Continued)

Predator	Date	Phytoplankton
"	"	Chlamydomonas sp., C. pulsatilla, Euglena schmitzii, Prorocentrum rampii, Thalassiosira antarctica and T. nordenskioeldii
"	"	Chlamydomonas sp., Goniaulax cysts, Navicula sp., Prorocentrum sp., P. rampii
"	"	Chlamydomonas sp., C. ballenyana, C. pulsatilla, Euglena sp., Prorocentrum sp. and P. rampii
"	"	Chaetoceros wighami, Chlamydomonas sp., C. ballenyana, Euglena schmitzii, Navicula sp., Prorocentrum sp. and P. rampii
"	"	Chaetoceros brevis, Chlamydomonas sp., C. pulsatilla, Navicula sp., Phaeocystis pouchetii and Thalassiosira sp.
"	"	Chlamydomonas sp., C. pulsatilla, Coscinodiscus sp., Euglena schmitzii, E. vermiformis, Fragilaria pinnata and Gymnodinum cyst
"	"	Chlamydomonas pulsatilla, C. tetraolaris, Euglena agilis, E. schmitzii, Fragilaria sp., Leptocylindrus danicus, Navicula sp., Prorocentrum sp. and Thalassiosira sp.
"	"	Chaetoceros fragilis, C. furcellatus, Chlamydomonas sp., C. pulsatilla, Fragilaria pinnata, Fragilariopsis nana, Goniaulax sp., Prorocentrum rampii and Salpingoeca natans

Table 17. (Continued)

Predator	Date	Phytoplankton
"	"	Chaetoceros holsaticus, Chlamydomonas sp., C. ballenyana, Chroomonas sp., Euglena schmitzii, Goniaulax cycst, Melosira arctica, Nitzschia acicularis, Pinnularia sp., Prorocentrum rampii and Thalassiosira nordenskioeldii
"	"	Chlamydomonas sp., C. pulsatilla, Euglena schmitzii, Goniaulax sp., Nitzschia grunowii, Phaeocystis pouchetii and Thalassiosira decipiens
"	5 Aug 1983	Amphora laevis, Chaetoceros furcellatus, C. wighami, Chlamydomonas sp., C. pulsatilla, Euglena proxima, E. schmitzii, Leptocylindrus danicus, Navicula sp., N. vanhoeffenii, Nitzschia grunowii, N. linearis, N. seriata, Pseudonitzschia delicatissima, Prorocentrum sp. and Thalassiosira sp.
"	6 Aug 1983	Chaetoceros sp., Chlamydomonas sp., C. pulsatilla, Euglena schmitzii, Thalassiosira sp. and T. decipiens
"	"	Achnanthes taeniata, Chaetoceros wighami, Chlamydomonas sp., C. pulsatilla, Euglena proxima, E. schmitzii, Fragilaria islandica, Nitzschia grunowii and Thalassiosira sp.
"	12 Aug 1983	Chaetoceros sp., Chlamydomonas sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., Euglena gracilis, E. proxima, Prorocentrum rampii and Staurastrum sp.
"	"	Chlamydomonas sp., C. pulsatilla, Euglena sp., Navicula sp., Nitzschia cylindrus, Peridinium sp., Thalassiosira sp. and T. decipiens

Table 17. (Continued)

Predator	Date	Phytoplankton
"	12 Aug 1983	Achnanthes taeniata, Chaetoceros sp., Chlamydomonas sp., C. pulsatilla, Coscinodiscus sp., Euglena proxima, Leptocylindrus danicus, Nitzschia grunowii, N. linearis and Thalassiosira decipiens
"	17 Aug 1983	Chlamydomonas sp., Thalassiosira sp. and T. decipiens
"	19 Aug 1983	Coscinodiscus sp. and Thalassiosira sp.
"	27 Aug 1983	Chaetoceros sp., C. brevis, Chlamydomonas sp., C. pulsatilla, Cylindrotheca closterium, Navicula sp. and Thalassiosira decipiens
"	13 Mar 1984	Chlamydomonas sp. and Nitzschia sp.
"	7 Aug 1984	Chlamydomonas sp.
"	"	Chaetoceros furcellatus, Chlamydomonas ballenyana and Thalassiosira sp.
"	13 Aug 1984	Chaetoceros affinis, C. decipiens, C. furcellatus, Chlamydomonas pulsatilla and Navicula granii
"	21 Aug 1984	Chaetoceros furcellatus and Chlamydomonas sp.
"	Feb 1985	Chaetoceros septentrionalis
"	"	Chlamydomonas ballenyana
"	"	Euglena sp.
"	"	Goniaulax sp.
"	"	Chlamydomonas ballenyana and Euglena geniculata

Table 17. (Continued)

Predator	Date	Phytoplankton
"	"	Chlamydomonas sp. and Euglena schmitzii
"	"	Euglena schmitzii and Gyrodinium spirale
"	"	Chlamydomonas pulsatilla, Euglena geniculata and E. schmitzii
"	"	Brachytrichia quoyi, Euglena schmitzii and Peridinium sp.
"	"	Chaetoceros decipiens, C. furcellatus, Chlamydomonas ballenyana, C. pulsatilla and Euglena sp.
Paroediceros lynceus	Aug 1982	Chaetoceros brevis, Chlamydomonas sp. and Euglena schmitzii
"	"	Chlamydomonas sp., Chroomonas sp., Euglena sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., C. ballenyana, C. pulsatilla, Dinophysis acuminata, Euglena schmitzii and Prorocentrum sp.
"	"	Chlamydomonas sp., C. ballenyana, Euglena geniculata, E. schmitzii, Nitzschia grunowii and Thalassiosira sp.
"	"	Chaetoceros wighami, Chlamydomonas sp., C. ballenyana, Chroomonas sp., Euglena schmitzii, E. vermiformis, Pleurosigma sp., Prorocentrum sp., P. rampii and Thalassiosira sp.
"	"	Chlamydomonas sp., C. ballenyana, C. pulsatilla, Dinophysis sp., Euglena schmitzii, Navicula crucigeroides, Prorocentrum rampii, Thalassiosira sp., T. oestrupii and Thalassomonas sp.

Table 18. Phytoplankton taxa found in the stomach contents of Euphausiacea from Frobisher Bay under the ice and during the summers of 1982 and 1983.

Predator	Date	Phytoplankton
Thysanoessa sp.	Aug 1982	Chlamydomonas sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., Chroomonas sp., Euglena schmitzii and Prorocentrum rampii
"	"	Achnanthes taeniata, Chlamydomonas sp., Nitzschia grunowii and Thalassiosira sp.
"	"	Chlamydomonas sp., C. pulsatilla, Euglena proxima, Prorocentrum rampii and Thalassiosira sp.
"	"	Chlamydomonas sp., C. pulsatilla, Euglena sp., E. schmitzii, Prorocentrum sp. and P. rampii
"	"	Chlamydomonas sp., C. ballenyana, Euglena schmitzii, Prorocentrum sp., P. rampii and Thalassomonas sp.
"	"	Chlamydomonas sp., C. pulsatilla, C. tetraolaris, Cymbella sp., Euglena agilis, E. proxima, E. schmitzii, Prorocentrum micans and P. rampii
"	"	Chlamydomonas sp., C. pulsatilla, Euglena schmitzii, Prorocentrum micans and P. rampii
"	"	Chlamydomonas sp., Chroomonas sp., Euglena schmitzii, E. vermiformis, Prorocentrum rampii and Thalassomonas sp.
"	"	Chlamydomonas sp., C. pulsatilla, Euglena schmitzii, Fragilaria pinnata, Prorocentrum rampii and Thalassomonas sp.

Table 18. (Continued)

Predator	Date	Phytoplankton
"	"	Chlamydomonas sp., C. ballenyana, C. pulsatilla, C. tetraolaris, Euglena proxima, E. schmitzii, Prorocentrum sp. and P. rampii
"	"	Chaetoceros brevis, C. fragilis, C. wighami, Chlamydomonas sp., C. pulsatilla, Chroomonas sp., Euglena proxima, E. schmitzii, Gymnodinium cyst, Nitzschia frigida, Prorocentrum micans, P. rampii, Thalassiosira sp. and T. nordenskioeldii
Thysanoessa inermis	27 Aug 1983	Chlamydomonas sp. and Thalassiosira sp.
"	"	Chaetoceros furcellatus and Chlamydomonas sp.
"	"	Chaetoceros furcellatus, C. septentrionalis, Cocconeis sp., Fragilaria pinnata and Thalassiosira decipiens
"	"	Chaetoceros furcellatus, Chlamydomonas, Fragilaria pinnata, Thalassiosira sp. and T. decipiens
"	"	Chaetoceros furcellatus, Chlamydomonas sp., Synedra sp., Thalassiosira sp. and T. decipiens
"	"	Chaetoceros sp., C. brevis, C. furcellatus, C. septentrionalis, Chlamydomonas sp. and Thalassiosira decipiens
"	"	Achnanthes taeniata, Chaetoceros furcellatus, Chlamydomonas sp., Nitzschia cylindrus, N. linearis, Pinnularia sp., Thalassiosira sp. and T. decipiens

Table 18. (Continued)

Predator	Date	Phytoplankton
"	"	Chaetoceros sp., C. furcellatus, C. septentrionalis, Chlamydomonas sp., C. pulsatilla, Nitzschia grunowii, N. linearis, Thalassiosira sp. and T. gravida
Thysanoessa raschii	27 Aug 1983	Chaetoceros brevis, C. furcellatus, C. septentrionalis, Nitzschia grunowii, Phaeocystis pouchetii and Thalassiosira sp.
"	"	Chaetoceros furcellatus, C. septentrionalis, Chlamydomonas sp., C. pulsatilla and Prorocentrum rampii

Table 19. Phytoplankton taxa found in the stomach contents of Decapoda from Frobisher Bay under the ice during the summers of 1982 - 1984.

Predator	Date	Phytoplankton
Sabinea septemcarinata	Aug 1982	Chlamydomonas sp. C. ballenyana, Euglena sp. and E. schmitzii
"	"	Chlamydomonas pulsatilla, Euglena schmitzii, Goniaulax catenata, Prorocentrum micans and P. rampii
"	"	Chlamydomonas sp., C. ballenyana, C. pulsatilla, Euglena proxima, Prorocentrum sp. and P. rampii
"	"	Chlamydomonas sp., C. ballenyana, Chroomonas sp., Euglena proxima, E. schmitzii and Prorocentrum sp.
"	"	Chlamydomonas sp., C. ballenyana, Euglena sp., E. schmitzii, Phaeocystis pouchetii, Prorocentrum rampii and Thalassiosira sp.
Larvae, unidentified	6 Aug 1983	Achnanthes taeniata, Chaetoceros furcellatus, Chlamydomonas sp., C. pulsatilla, Euglena proxima, E. schmitzii, Leptocylindrus danicus, Navicula granii, Nitzschia acicularis, N. cylindrus, N. grunowii, N. seriata, Thalassiosira sp., T. decipiens and T. nordenskioeldii
"	"	Achnanthes taeniata, Chaetoceros furcellatus, C. lauderi, Chlamydomonas sp., Euglena schmitzii, Leptocylindrus danicus, Melosira sp., Navicula vanhoeffenii, Nitzschia cylindrus, N. grunowii, N. seriata, Pseudonitzschia delicatissima, Thalassiosira sp. and T. decipiens

Table 19. (Continued)

Predator	Date	Phytoplankton
"	13 Aug 1983	Chlamydomonas sp. and Thalassiosira sp.
"	19 Aug 1983	Chlamydomonas sp., C. ballenyana, Navicula sp., Thalassiosira sp. and T. decipiens
"	30 July 1984	Chaetoceros furcellatus and Oxytoxum sp.
"	13 Aug 1984	Chaetoceros furcellatus
"	"	Euglena sp. and Navicula sp.
"	"	Chaetoceros furcellatus, Chlamydomonas sp. and Prorocentrum rampii
"	"	Chaetoceros affinis, Chlamydomonas ballenyana, Nitzschia sp., Prorocentrum sp. and Thalassiosira decipiens

Table 20. Phytoplankton taxa found in the stomach contents of Chaetognatha from Frobisher Bay under the ice during the summers of 1982 - 1984.

Predator	Date	Phytoplankton
Sagitta elegans	Aug 1982	Chaetoceros sp. and Chlamydomonas sp.
"	"	Chlamydomonas sp. and Euglena schmitzii
"	"	Chlamydomonas sp. and Fragilaria sp.
"	"	Chaetoceros spore and Gymnodinium Tohmanni
"	"	Chlamydomonas sp. and Thalassiosira sp.
"	"	Chlamydomonas sp. and Thalassomonas sp.
"	"	Chlamydomonas sp., Coscinodiscus sp.
"	"	Chlamydomonas sp., C. pulsatilla, Euglena schmitzii and Thalassiosira sp.
"	19 Aug 1983	Thalassiosira sp.
"	"	Chaetoceros furcellatus and Thalassiosira sp.
"	"	Prorocentrum sp. and Thalassiosira sp.
"	"	Prorocentrum sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., C. pulsatilla and Thalassiosira decipiens
"	"	Chlamydomonas pulsatilla, Prorocentrum sp. and Thalassiosira sp.
"	"	Chlamydomonas sp., Goniaulax cyst, Thalassiosira sp. and T. decipiens
"	7 Aug 1984	Chaetoceros sp., C. furcellatus and Navicula sp.

Table 21. Phytoplankton taxa found in the stomach contents of Fishes from Frobisher Bay under the ice during the summer of 1982.

Predator	Date	Phytoplankton
Larvae, unidentified	Aug 1982	Chlamydomonas sp.
"	"	Chaetoceros wighami, Chlamydomonas sp. and C. pulsatilla
"	"	Chlamydomonas sp., Euglena proxima, Thalassiosira antarctica and T. decipiens
"	"	Euglena schmitzii, Fragilaria sp., Navicula sp., Thalassiosira sp. and T. decipiens
"	"	Chaetoceros septentrionalis, Chlamydomonas sp., Euglena sp., E. schmitzii, Fragilaria sp. and F. striatula
"	"	Chlamydomonas sp., Euglena sp., E. proxima, E. schmitzii, Navicula crucigeroides, Prorocentrum sp. and Thalassiosira sp.

Table 22. Zooplankton with stomachs containing animal food.

Cnidaria
- Bougainvillia superciliaris (L. Agassiz)
- Hybocodon prolifer L. Agassiz
- Sarsia sp.
- Ephyra, unidentified

Ctenophora
- Beroe cucumis Fabricius
- Mertensia ovum (Fabricius)

Polychaeta
- Autolytus sp.

Mollusca
- Spiratella helicina (Phipps)

Cladocera
- Philomedes globosa (Lilljeborg)

Cyclopoida
- Calanus glacialis Jashnov
- C. hyperboreus Krøyer

Cirripedia
- Balanus nauplius

Amphipoda
- Gammarus setosus Dementieva
- Hyberoche medusarum (Krøyer)
- Onisimus glacialis G.V. Sars
- Parathemisto libellula (Lichtenstein)
- Paroediceros lynceus (M. Sars)

Euphausiacea
- Thysanoessa inermis (Krøyer)
- Thysanoessa sp.

Decapoda
- Sabinea septemcarinata (Sabine)
- Larvae, unidentified

Chaetognatha
- Sagitta elegans Verrill

Fishes
- Larva, unidentified

Table 23. Zooplankton taxa found in the stomach contents of planktonic carnivores from Frobisher Bay during the summers of 1982 - 1985.

Predator	Date	Prey
Cnidaria *Bougainvillia superciliaris*	Aug 1982	*Balanus* nauplius, copepod nauplius
"	"	*Calanus glacialis*
"	"	*Balanus* nauplius
"	17 Aug 983	*Balanus* nauplius, copepod nauplius
"	"	*Balanus* nauplius
Hybocodon prolifer	12 Aug 1983	*Pseudocalanus* sp.
"	19 Aug 1983	*Pseudocalanus* sp.
"	21 Aug 1984	*Pseudocalanus* sp.
Sarsia sp.	Aug 1982	*Balanus* nauplius, *Pseudocalanus* sp.
"	"	*Balanus* nauplius
"	"	*Balanus* nauplius, *Pseudocalanus* sp.
"	"	*Calanus glacialis*, *Pseudocalanus* sp.
"	12 Aug 1983	*Calanus glacialis*, *Balanus* nauplius
"	17 Aug 1983	*Balanus* nauplius
Ephyra, unidentified	12 Aug 1983	*Balanus* nauplius, Nematoda
Ctenophora *Beroe cucumis*	Aug 1982	Eggs, unidentified
Mertensia ovum	Aug 1982	*Balanus* nauplius
"	"	*Pseudocalanus* sp.

Table 23. (Continued)

Predator	Date	Prey
"	"	Balanus nauplius
"	"	Balanus nauplius
"	"	Balanus nauplius
"	"	Balanus nauplius
"	"	Pseudocalanus sp., Balanus nauplius, Calanus glacialis VI F
"	"	Calanus glacialis VI F
"	3 Aug 1983	Pseudocalanus sp., Balanus nauplius, copepod nauplius, Harpacticus superflexus, harpacticoid early copepodid, isopod larva
"	17 Aug 1983	Pseudocalanus sp., Balanus nauplius
"	"	Pseudocalanus sp., Balanus nauplius
"	26 Aug 1983	Pseudocalanus sp., Balanus nauplius, Calanus glacialis, Tisbe furcata
"	"	Pseudocalanus sp., Balanus nauplius
"	"	Pseudocalanus sp., Balanus nauplius, Thysanoessa calyptopis
"	"	Pseudocalanus
Polychaeta Autolytus sp.	Aug 1982	Protozoa
"	"	Protozoa
Mollusca Spiratella helicina	Aug 1982	Protozoa

Table 23. (Continued)

Predator	Date	Prey
Cladocera		
Philomedes globosa	7 Aug 1984	Isopod larva
Copepoda		
Calanus glacialis	Aug 1982	Protozoa
" "	"	Protozoa
Calanus hyperboreus	Aug 1982	Protozoa
" "	"	Protozoa
" "	"	Protozoa
Cirripedia		
Balanus nauplius	Aug 1982	Ciliata, other Protozoa
" "	"	Nematoda
" "	"	Protozoa
Amphipoda		
Gammarus setosus	Aug 1982	Protozoa
"	"	Nematoda, *Calanus glacialis*
"	"	Nematoda, *Calanus glacialis*
"	5 Aug 1983	*Pseudocalanus* sp.
Hyperoche medusarum	Aug 1982	Protozoa
Onisimus glacialis	Aug 1982	*Balanus* nauplius
"	"	*Balanus* nauplius, *Calanus glacialis*, Protozoa

Table 23. (Continued)

Predator	Date	Prey
"	"	Cyclopina sp.
"	"	Calanus glacialis
"	"	Protozoa
"	"	Balanus nauplius, Pseudocalanus sp. VI F
"	"	Balanus nauplius, Pseudocalanus sp. VI F
"	"	Balanus nauplius, Pseudocalanus sp. VI F
"	"	Calanus glacialis, Pseudocalanus sp.
"	"	Calanus glacialis, Pseudocalanus sp. VI F
"	5 Aug 1983	Balanus nauplius, Calanus glacialis, Calanoid copepodid
"	13 Aug 1983	Balanus nauplius
"	17 Aug 1983	Balanus nauplius
"	19 Aug 1983	Balanus nauplius, Pseudocalanus sp.
Onisimus sp	19 Aug 1983	Balanus nauplius, Pseudocalanus sp.
"	"	Pseudocalanus sp.
"	30 July 1984	Balanus nauplius
Parathemisto libellula	Aug 1982	Copepod nauplius
"	"	Pseudocalanus sp.
"	"	Balanus nauplius, Pseudocalanus sp.
"	"	Balanus nauplius
"	"	Balanus nauplius, Pseudocalanus sp. VI F
"	"	Pseudocalanus sp.

Table 23. (Continued)

Predator	Date	Prey
"	"	Pseudocalanus sp.
"	"	Balanus nauplius
"	"	Balanus nauplius
"	"	Balanus nauplius
"	"	Pseudocalanus sp.
"	"	Pseudocalanus sp. VI
"	5 Aug 1983	Balanus nauplius
"	6 Aug 1983	Ciliata, Balanus nauplius, copepod nauplius
"	"	Ciliata, Balanus nauplius, copepod nauplius, Acarina
"	10 Aug 1983	Balanus sp.
"	12 Aug 1983	Balanus sp.
"	"	Balanus nauplius, Calanus glacialis, Pseudocalanus sp., Harpacticus superflexus, isopod larva, decapod larva
"	19 Aug 1983	Pseudocalanus sp.
"	27 Aug 1983	Pseudocalanus sp.
"	7 Aug 1984	Pseudocalanus sp.
"	13 Aug 1984	Pseudocalanus sp.
"	21 Aug 1984	Pseudocalanus sp., Balanus nauplius
"	4 Feb 1985	Pseudocalanus sp.

Table 23. (Continued)

Predator	Date	Prey
"	"	Calanoid copepodid
"	"	Calanoid copepodid
Paroediceros lynceus	Aug 1982	Pseudocalanus sp.
"	"	Pseudocalanus sp. VI F
"	"	Pseudocalanus sp. VI F, Copepod nauplius
"	"	Pseudocalanus sp. Balanus nauplius, Isopod larva
"	"	Balanus nauplius
Euphausiacea Thysanoessa inermis	29 Aug 1983	Pseudocalanus sp.
"	"	Onisimus sp.
Thysanoessa sp	Aug 1982	Protozoa
"	"	Protozoa
Decapoda Sabinea septemcarinata	Aug 1982	Protozoa
"	"	Balanus nauplius
Larva, unidentified	6 Aug 1983	Balanus nauplius, copepod nauplius
"	30 July 1984	Balanus nauplius
Chaetognatha Sagitta elegans	Aug 1982	Pseudocalanus sp. VI F
"	"	Pseudocalanus sp. VI F
"	"	Pseudocalanus sp. VI F

Table 23. (Continued)

Predator	Date	Prey
"	"	Pseudocalanus sp. VI F
"	"	Pseudocalanus sp. VI F
"	"	Pseudocalanus sp. VI F
"	"	Pseudocalanus sp. VI F
"	"	Calanus hyperboreus VI F
"	"	Pseudocalanus sp. VI F
"	"	Pseudocalanus sp. VI F
"	19 Aug 1983	Pseudocalanus sp.
"	"	Pseudocalanus sp.
"	"	Pseudocalanus sp.
"	"	Pseudocalanus sp.
"	"	Pseudocalanus sp.
"	"	Pseudocalanus sp.
"	7 Aug 1984	Pseudocalanus sp.
Fishes Larva, unidentified	Aug 1982	Polychaete larva
"	"	Polychaete larva
"	"	Polychaete larva, Ostracoda
"	"	Polychaete larva
"	"	Polychaete larva
"	"	Polychaete larva, Balanus nauplius